

CLAIMS

In the Claims:

1. A method comprising:
 - 5 modifying an original header associated with an original data packet wherein
key information is added;
 encrypting original data associated with the original data packet in response
to the key information; and
 forming an encrypted data packet including the modified header and the
10 encrypted data,
 wherein the encrypted data packet is a same size as the original data packet.
 2. The method according to claim 1 further comprising receiving a session identifier.
 - 15 3. The method according to claim 2 wherein the modifying further comprises
modifying the original header in response to the session identifier.
 4. The method according to claim 1 wherein the modifying further comprises
replacing the fragmentation identification and fragment offset of the original header
20 with a mixing key and an offset.
 5. The method according to claim 1 wherein the original data packet and the
encrypted data packet utilize Internet Protocol version 4.

6. A system comprising:

- means for modifying an original header associated with an original data
5 packet wherein key information is added;
means for encrypting original data associated with the original data packet in
response to the key information; and
means for forming an encrypted data packet including the modified header
and the encrypted data,
10 wherein the encrypted data packet is a same size as the original data packet.

7. A method comprising:

- distributing a secured session identifier from a KDC to a sender computer and
15 a receiver computer wherein the secured session identifier allows the receiver
computer and the sender computer to establish a secure communication session;
storing access rights in the KDC wherein the access rights are associated
with the secured session identifier; and
obtaining an encryption key via the secure session identifier from the KDC.

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8. The method according to claim 7 further comprising obtaining discretionary
access rights from the KDC for use with the secured session identifier between the
sender computer and the receiver computer.

9. A method comprising:

generating a large number of unique random keys for each
encrypted IP packet; and

5 transmitting the large number of unique random keys to a sender computer
and a receiver computer, wherein a transmission overhead from
a KDC is reduced.

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